

## CURRICULUM VITAE

### PERSONAL INFORMATION

Family name, First name: Turiák, Lilla  
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Date of birth: 15/08/1984  
Nationality: Hungarian  
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### • EDUCATION

2012            Ph.D.  
                  Doctoral School for Pharmaceutical Sciences/Semmelweis University/Budapest,  
                  Hungary  
                  Name of PhD Supervisor: Professor Károly Vékey

2008            Doctor of Pharmacy  
                  Faculty of Pharmacy/Semmelweis University/Budapest, Hungary

### • CURRENT POSITION(S)

2023/09 –      Group Leader  
                  MTA-HUN-REN TTK Lendület (Momentum) Glycan Biomarker Research Group/  
                  Institute of Organic Chemistry/ HUN-REN Research Centre for Natural Sciences  
                  /Hungary

### • PREVIOUS POSITIONS

2020/07 –      Senior research scientist  
2023/08            MS Proteomics Research Group/ Institute of Organic Chemistry/ Research Centre for  
                  Natural Sciences /Hungary

2015 – 2020      Research scientist  
                  MS Proteomics Research Group/ Institute of Organic Chemistry/ Research Centre for  
                  Natural Sciences /Budapest, Hungary

2013/01-        Postdoctoral research associate  
2015/06            Center for Biomedical Mass Spectrometry/Department of Biochemistry/Boston  
                  University School of Medicine /Boston, MA, USA

2009-2012      PhD student  
                  MS Proteomics Research Group/ Institute of Organic Chemistry/ Research Centre for  
                  Natural Sciences /Budapest, Hungary

### • FELLOWSHIPS AND AWARDS

2024            *L'Oréal-UNESCO For Women in Science Award*

2022-2023        *Bolyai János Research Scholarship*, Hungarian Academy of Sciences/Hungary  
                  (scholarship ended in 2023 due to the Lendület grant)

2021            *Pungor Ernő Medal*, Section of Chemical Sciences/Hungarian Academy of Sciences/  
                  Hungary: outstanding research in the field of chemical sciences under the age of 45

- 2021 *Cornides István Scientific Prize*, Hungarian Chemical Society/Hungarian Society for Mass Spectrometry
- 2018 *Prisma Award in Memoriam Szabolcs Nyiredy*, Hungarian Society for Separation Sciences/Hungary: outstanding research in the field of separation sciences
- 2017-2021 *Bolyai János Research Scholarship*, Hungarian Academy of Sciences/Hungary, Bolyai Certificate (2022)

• **SUPERVISION OF GRADUATE AND UNDERGRADUATE STUDENTS**

- 2025 **Domonkos Pál, PhD** degree  
Doctoral School of Pharmaceutical Sciences/Semmelweis University/Hungary
- 2025 **Fanni Bugyi, PhD** degree (co-supervisor with Dr. László Drahos)  
György Hevesy Doctoral School of Chemistry/Eötvös Loránd University/Hungary
- 2023 **Simon Nándor Sugár, PhD** degree  
Doctoral School of Pharmaceutical Sciences/Semmelweis University/Hungary
- 2022 **Gábor Tóth, PhD** degree  
George A. Olah Doctoral School of Chemistry and Chemical Technology/Budapest University of Technology and Economics/Hungary
- 2022- **Mirjam Balbisi**, PhD student  
Doctoral School of Pharmaceutical Sciences/Semmelweis University/Hungary
- 2023- **Rachma Dessidianti Nur Hidayat**, PhD student  
Doctoral School/Semmelweis University/Hungary
- 2025- **Alexandra Molnár**, PhD student  
Doctoral School/Semmelweis University/Hungary
- 2025- **Krisztián Márk Karvaly**, MSc thesis  
Institute of Chemistry/Eötvös Loránd University/Hungary
- 2025- **Martin Pap**, MSc thesis  
Institute of Chemistry/Miskolc University/Hungary
- 2024- **Viktória Kiss**, BSc thesis  
Institute of Chemistry/Eötvös Loránd University/Hungary
- 2024- **Boglárka Cziráki**, BSc thesis  
Institute of Chemistry/Eötvös Loránd University/Hungary
- 2024- **Virág Nikolett Horváth**, MSc thesis (2025 OTDK special award)  
Department of Control Engineering and Information Technology/Budapest University of Technology and Economics/Hungary
- 2024-2025 **Alexandra Molnár**, MSc thesis (2025 OTDK 3<sup>rd</sup> place)  
Department of Inorganic and Analytical Chemistry/Budapest University of Technology and Economics/Hungary
- 2023-2025 **Krisztián Márk Karvaly**, BSc thesis (2025 OTDK 1<sup>st</sup> place)  
Institute of Chemistry/Eötvös Loránd University/Hungary
- 2022-2024 **Balázs András Molnár**, MSc thesis  
Department of Inorganic and Analytical Chemistry/Budapest University of Technology and Economics/Hungary
- 2021-2023 **Kata Dorina Fügedi**, MSc thesis (2023 OTDK 1<sup>st</sup> place)  
Department of Inorganic and Analytical Chemistry/Budapest University of Technology and Economics/Hungary
- 2021-2022 **Mirjam Balbisi**, MSc thesis (2023 OTDK special award)  
Institute of Chemistry/Eötvös Loránd University/Hungary
- 2021-2022 **Balázs András Molnár**, BSc thesis  
Department of Inorganic and Analytical Chemistry/Budapest University of Technology and Economics/Hungary
- 2020-2022 **Domonkos Pál**, MSc thesis (2023 OTDK 2<sup>nd</sup> place)

- Department of Inorganic and Analytical Chemistry/Budapest University of Technology and Economics/Hungary
- 2017-2019 **Simon Nándor Sugár**, MSc thesis (2019 OTDK 2<sup>nd</sup> place)
- Department of Inorganic and Analytical Chemistry/Budapest University of Technology and Economics/Hungary
- 2017-2018 **Gábor Tóth**, MSc thesis (2019 OTDK 1<sup>st</sup> place, *Pro Scientia Gold Medal*)
- Department of Inorganic and Analytical Chemistry/Budapest University of Technology and Economics/Hungary
- 2015-2017 **Stella Pokorni**, diploma work
- Semmelweis University, Faculty of Pharmacy

#### • TEACHING ACTIVITIES

- 2021 – Co-course leader – Mass spectrometry based proteomics course, Budapest University of Technology and Economics/Hungary

#### • ORGANISATION OF SCIENTIFIC MEETINGS

- 2025 Co-chair, 19<sup>th</sup> Central and Eastern European Proteomics Conference/Hungary
- 2023 Organizing committee member, 40<sup>th</sup> Informal Meeting on Mass Spectrometry/Hungary
- 2018 Organizing committee member, 36<sup>th</sup> Informal Meeting on Mass Spectrometry/Hungary
- 2016 Organizing committee member, 10<sup>th</sup> Central and Eastern European Proteomics Conference/Hungary
- 2012 Organizing committee member, 6<sup>th</sup> Central and Eastern European Proteomics Conference/Hungary

#### • REVIEWING ACTIVITIES

- 2017– Reviewer for scientific journals: Analytical Chemistry, Journal of Proteome Research, Molecules, International Journal of Molecular Sciences, Journal of Pathology, Expert Review of Proteomics, ACS Measurement Science Au

#### • MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2025- HUPO Council Member
- 2023 – Board Member, Hungarian Society for Mass Spectrometry
- 2022 – Editorial Board Member, Molecular Biology Reports (Section Extracellular Matrix Biology)
- 2021 – Committee Member, Conferences & Communication Committee/European Proteomics Association
- 2012 – Member, Hungarian Society for Separation Sciences
- 2012 – Member, Hungarian Society for Pharmaceutical Sciences

#### • MAJOR COLLABORATIONS

- **Professor Edit Buzás**, extracellular vesicle proteomics, Department of Genetics, Cell- and Immunobiology/Semmelweis University/Hungary
- **Dr. Gabriella Pócsfalvi**, plant-derived extracellular vesicle proteomics, IBBR/CNR/Naples/Italy
- **Professor Ilona Kovalszky**, cancer tissue proteomics & GAG analysis, 1<sup>st</sup> Department of Pathology and Experimental Cancer Research/Semmelweis University/Hungary

- **Professor Judit Moldvay**, lung tissue proteomics & GAG analysis, National Korányi Institute for Pulmonology
- **Dr. Tibor Szarvas**, prostate cancer proteomics & GAG analysis, Department of Urology, University Hospital Duisburg-Essen; Department of Urology, Semmelweis University
- **Dr. Guinevere Lageveen-Kammeijer** (University of Groningen), Capillary electrophoresis-MS of glycosaminoglycan disaccharides
- **Dr. Ali Salanti** (University of Copenhagen), oncofetal chondroitin sulfate antibodies

- **CAREER BREAKS**

2018/11-2020/05          maternity leave

2022/02-2023/04          maternity leave

- **FUNDING/SUPPORT**

2025/06-2025/11          EMBO Advanced Collaboration Grant 11251 (*Uncovering changes in heparan sulfate sulfation and O-glycosylation in small extracellular vesicles isolated from different non-small-cell lung cancer cell subtypes*, support visit to the lab of Guinevere Lageveen-Kammeijer in Groningen, for 104 days: PI 14 days, Mirjam Balbisi 90 days)

2023/09-2028/08          Hungarian Academy of Sciences: Lendület Program (*Glycomic Characterization of Tumor-derived Extracellular Vesicles*, total cost: 540 000 USD)

2020/05-2025/04          National Research, Development and Innovation Office: young investigator grant (FK 131603: *Identification of predictive biomarkers for the prognosis of targeted biological therapy in lung cancer*, total cost: 120 000 USD)

2019/03-2024/02          National Research, Development and Innovation Office: HunProtEx 2018-1.2.1-NKP-2018-00005 participant

2016/12-2021/05          National Research, Development and Innovation Office: postdoctoral grant (PD 121187: *Mass spectrometry based identification of prostate cancer biomarkers from tissue microarrays*, total cost: 47 000 USD) Evaluation: excellent 10/10

2016-2018                  Joint Project between the National Research Council of Italy (CNR) and the Hungarian Academy of Sciences (HAS), “*NutriCargo: Characterization of plant secreted nanovesicles*”, B66D16000360005, Hungarian Project Leader

- **INVITED PRESENTATIONS/INVITATIONS**

2024                          Invited speaker: Austrian Proteomics and Metabolomics Association (APMA) and the Central and Eastern Proteomic Conference (CEEPC) joint conference APMRS-CEEPC 2024, 2024-09-23-2024-09-25, Vienna, Austria  
Title of presentation: Comparing the proteomic and glycomic profiles of A549 and BEAS-2B cell line-derived small extracellular vesicles

- 2024 Invited lecture: YPIC Annual Proteomics Gathering 2024, 2024-04-25, Budapest, Hungary  
Title of presentation: Introduction to Proteomics
- 2022 Invited plenary lecture: 33rd International Symposium on Chromatography, 2022-09-18-2022-09-22 Budapest, Hungary  
Title of presentation: Proteomic Analysis of Small Cell and Non-Small Cell Lung Cancer Tissue Samples
- 2021 Dagstuhl Computational Proteomics Seminar 2021: July 4 – 9 , 2021, Dagstuhl Seminar 21271, <https://www.dagstuhl.de/en/program/calendar/semhp/?semnr=21271>
- 2016 Invited plenary lecture: 10<sup>th</sup> Central and Eastern European Proteomics Conference, 2016-10-11-2016-10-14 Budapest, Hungary  
Title of presentation: Integrating GAGomics and proteomics for tissue analysis

- **SCIENTIFIC AND RESEARCH INTERESTS AND PLANS**

Our current research focuses on lung cancer research analyzing formalin fixed paraffin embedded tissue samples as well as characterizing the glycome of extracellular vesicles isolated from lung cancer cell lines. Identifying key proteins and glycans leading to different types of lung cancer using mass spectrometry-based proteomics and glycomics can help discover novel markers predicting effectiveness or failure of given therapies.



Budapest, February 16<sup>th</sup>, 2026